

New sensing technologies for SHM of bridges

ABSTRACT:

In recent years, many researchers have developed novel sensors driven by the growth in sensing technologies combined with the easier access to data acquisition, processing, and storage systems. Among other advantages, these solutions generally have a high degree of flexibility, as they can be customized and adapted to each specific case under study.

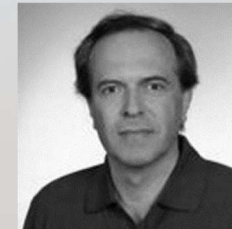
This Special Issue is dedicated to the dissemination of research work in this area, with special focus on problems involving Structural Health Monitoring of bridges, including topics such as, but not limited to:

- Distributed sensor networks
- Vision systems
- Fiber optic sensing
- Wireless sensing
- Laser and radar systems
- Unmanned ground and aerial vehicle inspection
- Global navigation satellite systems
- Energy-harvesting-based systems
- Algorithms for local data processing
- Data transmission and management
- Real-world applications

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